

Express Mail No.: EV-03880045US

03DV-7090
PATENT

Figure 4 is a side view of inside-out motor 50 shown in Figure 3 positioned to be attached to a load 60. In one embodiment, load 60 is a fan. Inside-out motor annular flange 24 rests on a surface 62 of a tooling apparatus 64 while supporting rotor cup 22. Load 60 is pressed onto rotor cup 22 in a vertical direction 66. Annular flange 24 provides a smooth surface when load 60 is pressed onto rotor cup 22. Annular flange 24 has an increased surface area because of outwardly flared curved edge 46 (shown in Figure 2).

IN THE CLAIMS

Please cancel claims 1-4.

5. (twice amended) A rotor cup assembly for an electric motor, said rotor cup assembly comprising a housing comprising a top, a bottom, a sidewall extending circumferentially from said top and having a first diameter, said sidewall and said top defining a cavity, and an annular flange extending circumferentially from said sidewall for strengthening said sidewall, said annular flange having a first inner diameter, a second inner diameter, and a first thickness, said first inner diameter less than said second inner diameter.
6. (twice amended) A rotor cup assembly in accordance with Claim 5 wherein said annular flange comprising an edge, said annular flange outwardly flared from said sidewall by an angle (Φ).
9. (once amended) A rotor cup assembly in accordance with Claim 5 wherein said annular flange second inner diameter greater than said housing sidewall first diameter.
10. (once amended) A rotor cup assembly in accordance with Claim 5 wherein said annular flange provides a smooth tapered surface for pressing an item into said rotor cup.
11. (twice amended) An electric motor comprising a stator including a stator core having a winding thereon, a rotor positioned at least partially around said stator, a rotor shaft positioned at least partially within said rotor, and a rotor cup, said rotor shaft extending through said rotor cup, said rotor cup comprising:
a housing comprising a top, a bottom, a sidewall, and an annular flange, said sidewall extending circumferentially from said top and having a first diameter, said annular flange